

**A RESOLUTION BY**

**CITY UTILITIES COMMITTEE**

**05- *12* -0653**

A RESOLUTION AUTHORIZING THE MAYOR OR DESIGNEE TO ISSUE A NOTICE-TO- PROCEED WITH ARCADIS/ BPA, JOINT VENTURE, FOR FC-7619-03A, ANNUAL CONTRACT FOR ARCHITECTURAL AND ENGINEERING SERVICES FOR WATER MAIN REPLACEMENT PROGRAM (VIRGINIA HIGHLANDS), ON BEHALF OF THE DEPARTMENT OF WATERSHED MANAGEMENT IN AN AMOUNT NOT TO EXCEED ONE MILLION ONE HUNDRED THOUSAND DOLLARS (\$1,100,000.00). ALL CONTRACTED WORK SHALL BE CHARGED TO AND PAID FROM FUND ACCOUNT AND CENTER NUMBER: 2J28 (2004 WATER AND WASTE WATER BOND FUND) 524001 (CONSULTANT/PROF. SERVICES) Q65J08279999 (VIRGINIA HIGHLANDS WATER LINE REPLACEMENT).

**WHEREAS**, the City of Atlanta (the "City") did enter into FC-7619-03A, Annual Contract for Architectural and Engineering Services; and

**WHEREAS**, the Commissioner of the Department of Watershed Management requires Architectural and Engineering Services for Water Main Replacement Program (Virginia Highlands) for in the amount not to exceed One Million One Hundred Thousand Dollars (\$1,100,000.00); and

**WHEREAS**, the Commissioner of the Department of Department of Watershed Management and the Chief Procurement Officer for the Department of Procurement have recommended Arcadis/ BPA , joint venture, to provide Architectural and Engineering Services for Water Main Replacement Program (Virginia Highlands).

**NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF ATLANTA, GEORGIA**, that the Mayor be and is hereby authorized to approve a notice-to-proceed with Arcadis/ BPA, joint venture, for FC-7619-03A, Annual Contract for Architectural and Engineering Services; in the amount not to exceed One Million One Hundred Thousand Dollars (\$1,100,000.00).

**BE IT FURTHER RESOLVED**, that the Chief Procurement Officer be and is hereby directed to prepare an appropriate agreement for execution by the Mayor to be approved by the City of Atlanta as to form.

**BE IT FURTHER RESOLVED**, that this notice-to-proceed should not become binding on the City, and the City shall incur no liability upon same until such contract has been executed by the Mayor and delivered to the contracting party.

**BE IT FINALLY RESOLVED**, that all services for said notice-to-proceed shall be charged to and paid from fund account and center number: 2J28 (2004 WATER AND WASTE WATER BOND FUND) 524001 (CONSULTANT/PROF. SERVICES) Q65J08279999 (VIRGINIA HIGHLANDS WATER LINE REPLACEMENT).

04/11/05 DOP (ADS)

**DEPARTMENT OF PROCUREMENT  
LEGISLATION SUMMARY**

**TO: CITY UTILITIES COMMITTEE**

**A RESOLUTION BY**

**CITY UTILITIES COMMITTEE**

A RESOLUTION AUTHORIZING THE MAYOR OR DESIGNEE TO ISSUE A NOTICE-TO-PROCEED WITH ARCADIS/ BPA, JOINT VENTURE, FOR FC-7619-03A, ANNUAL CONTRACT FOR ARCHITECTURAL AND ENGINEERING SERVICES FOR WATER MAIN REPLACEMENT PROGRAM (VIRGINIA HIGHLANDS), ON BEHALF OF THE DEPARTMENT OF WATERSHED MANAGEMENT IN AN AMOUNT NOT TO EXCEED ONE MILLION ONE HUNDRED THOUSAND DOLLARS (\$1,100,000.00). ALL CONTRACTED WORK SHALL BE CHARGED TO AND PAID FROM FUND ACCOUNT AND CENTER NUMBERS: 2J28 (2004 WATER AND WASTE WATER BOND FUND) 524001 (CONSULTANT/PROF. SERVICES) Q65J08279999 (VIRGINIA HIGHLANDS WATER LINE REPLACEMENT).

**REQUESTING**

**DEPARTMENT:** Department of Watershed Management

**CONTRACT TYPE:** Professional Services

**AWARDEES:**

- (1) CH2M Hill/Williams-Russell and Johnson
- (2) Atlanta Services Group
- (3) JP2 (Jacobs, Prad, PBS&J)
- (4) Shaw/ Aim, Joint Venture
- (5) Metcalf & Eddy/Cardozo Engineering, Joint Venture
- (6) Arcadis/Brindley Pieters & Associates, Joint Venture

**SOURCE**

**SELECTION:** RFP

**PROPOSALS DUE:** January 7, 2004

**INVITATIONS MAILED:** 146

**PROPOSALS**

**RECEIVED:** 12

**PROPONENTS:** Arcadis/BPA-(Brindley Pieters & Associates) – Joint Venture

Atlanta Architects & Engineers, Joint Venture

Atlanta Services Group, a Joint Venture

Infrastructure Partners-Joint Venture (B & E Jackson/HDR/Malcom Pirnie)

Brown and Caldwell/Deloan Hampton & Associates/Long Engineering Inc. - Joint Venture

CH2M Hill/Williams-Russell and Johnson – Joint Venture

Earthtech/IMCo Joint Venture

HTL - Harrington, Tetra Tech & Lowe-Joint Venture

JP<sup>2</sup> (Jacobs, Prad, PBS&J) – Joint Venture

Metcalf & Eddy/Cardozo Engineering-Joint Venture

Parsons Brinckerhoff & Khafra-Joint Venture

Shaw Environmental Inc. /AIM Partners, PLC- JV

**BACKGROUND:**

THE PURPOSE OF THE PROPOSED IMPROVEMENTS IS TO REPLACE EXISTING OLD WATER MAINS IN THE VIRGINIA HIGHLANDS DISTRICT WITH NEW 8-INCH WATER MAINS. THE EXISTING WATER MAINS WILL BE ABANDONED IN PLACE. THE PROJECT CONSISTS OF APPROXIMATELY 119,195 LINEAR FEET (LF) OF NEW 8-INCH DUCTILE IRON WATER MAINS.

**EVALUATION TEAM  
COMPOSITION:**

DPRCA, DWM, DPW, DPCD, OGA, OCC and Risk Management

**PROJECT  
PARTICIPATION:**

<u>Arcadis/Brindley Pieters &amp; Associates a JV (15 pts.)</u>		
Brindley Pieters	AABE	40%
Smith Real Estate Services, Inc.	AABE	3%
PEQ, Inc.	AABE	3%
Willmer Engineering, Inc.	FBE	1%
Architecture Group, Inc.	FBE	7%
Edwards-Pitman Environmental, Inc.	FBE	3%

---

<b>Participation Total</b>	<b>57%</b>
----------------------------	------------



SHIRLEY FRANKLIN  
MAYOR

**CITY OF ATLANTA**  
55 TRINITY AVENUE., SW, SUITE 5400, SOUTH BLDG.  
ATLANTA, GEORGIA 30303-0324  
OFFICE (404) 330-6081  
FAX (404) 658-7194

DEPARTMENT OF  
WATERSHED MANAGEMENT  
ROBERT J. HUNTER  
Commissioner

April 7, 2005

TO: Adam L. Smith, Chief Procurement Officer  
Department of Procurement

FROM: <sup>SC</sup> Robert J. Hunter, Commissioner  
Department of Watershed Management

CITY OF ATLANTA  
DEPT. OF WATERSHED MGMT  
1005 APR -7 PM 2:34

RE: **LEGISLATIVE REQUEST**  
**TASK ORDER Under FC-7619-03A**  
**Water Main Replacement Program – Virginia Highlands Area**  
**Contractor: Arcadis/BPA, JV**

Please prepare the appropriate legislation (Cycle 8) for the above reference services. We anticipate services in an amount not to exceed \$1,100,000.00. Please find attached the scope of services and Requisition No. Q65J-5013. The costs shall be charged to Fund, Account and Center No. 2J28-52400-Q65J08279999.

If you have any questions concerning this matter, please feel free to contact Sabrina D. Watts, Watershed Manager, at (404) 330-6955 or George Barnes, Deputy Commissioner, at (404) 330-6708.

Your assistance in this matter is requested and appreciated.

/gjc

c: Sheila Pierce, DWM  
Benjamin Kuku, DWM  
George Barnes, DWM  
Sabrina D. Watts, DWM  
✓ Cathy Martin, DOP  
Paul Kwaw, DF  
Maisha Land, DWM  
Gwendolyn J. Carswell, DWM  
File



ARCADIS/BPA, Joint Venture  
2849 Paces Ferry Road  
Suite 400  
Atlanta  
Georgia 30339  
Tel 770 431 8666  
Fax 770 435 2666

Mr. Peter Tinubu  
City of Atlanta  
Department of Watershed Management  
651 14th Street, NW  
Atlanta, GA 30318

Subject:  
Water Main Replacement Program for FY 2005  
Virginia Highlands Area

#### WATER RESOURCES

Dear Mr. Tinubu:

Date:  
January 12, 2005

ARCADIS/BPA, Joint Venture (ARCADIS/BPA) is pleased to submit this proposal for the engineering design of the Virginia Highlands water main replacement project. This project will be performed under the City of Atlanta Annual Contract. The purpose of this proposal is to identify the scope of work and engineering fees for the project.

Contact:  
John Dean

In accordance with our discussions on January 3, 2005, the services provided under this proposal include engineering design, permitting, easement plat preparation as needed, technical specifications and front-end contract document preparation, and advertising, bidding assistance, construction administration, and construction inspection. In this proposal, we present our understanding of the project, our scope of services for completing the project, our project team, our proposed schedule, and our not-to-exceed fee for completing the project.

Extension:  
508

E-mail:  
jdean@arcadis-us.com

Our ref:  
2005-011

### Project Understanding

The purpose of the proposed improvements is to replace existing old water mains in the Virginia Highlands district with new 8-inch water mains. The existing water mains will be abandoned in place. The project consists of approximately 119,195 linear feet (LF) of new 8-inch ductile iron water mains.

### Scope of Services

ARCADIS/BPA will provide the following services for the design of the Virginia Highlands Water Main Improvements project:

#### Phase I – Pre-Design Study

1. Gather and evaluate all available information from the Department of Watershed Management, such as previous studies, proposed routes, standards, and any other pertinent data available.
2. Meet with other agencies such as Georgia Department of Transportation (GDOT), Atlanta Gas Light Company, Georgia Power Company, BellSouth,

City of Atlanta Public Works, Fulton County Department of Public Works, and MARTA to determine requirements for construction and potential route problems.

3. Field-investigate the proposed routes to identify potential construction problems, and identify any potential variations of the routes that may be beneficial in terms of cost, permitting issues, constructibility, or minimizing public hazards or inconvenience.
4. Have the area flown to produce up-to-date aerial photography in digital format to serve as the basis for the design drawings.
5. Surveys
  - a. Establish global positioning system (GPS) control points within the area to serve as control points for the aerial photography.
  - b. Perform background research to determine what existing utilities are in the area. Field-mark the existing utilities along the selected routes. Identify the existing water mains by GPS location.
  - c. Pick up all other existing utilities and pertinent features by means of "in-field" location. The digital aerial photography will be loaded onto a laptop computer with a touch-sensitive screen. An experienced CADD technician, assisted by field crew members, will follow closely behind the utility location team and input all existing utilities and other pertinent features (e.g., valves, fire hydrants, meters, power poles) by drawing them directly into the database with a stylus on the touch-sensitive screen. This will expedite the survey and database production process.
6. Prepare preliminary drawings using the field-developed database as background. Drawings will show proposed locations of new water mains and tie-in locations to previously installed 8-inch ductile iron water mains.

**Deliverables:**

- Electronic files of all survey information obtained during Phase I
- Preliminary drawings for 30 percent review
- Preliminary cost estimate
- Special construction problems and features

**Phase II – Design and Contract Documents**

1. Prepare biddable design drawings and detailed specifications for construction of the project. Plan drawings will be at a scale of 1 inch = 50 feet. Larger scale details will be shown for areas of special construction and at other areas as needed for clarity. New service lines will be shown connecting to all existing



meters. Construction sequencing will be included to minimize disruption of service to existing customers.

2. Prepare individual easement plats with legal descriptions, as required along the selected water main route. Every effort will be made to contain the proposed water main and construction activities within existing road rights-of-way. For the purposes of this proposal we have assumed that a maximum of six easement plats will be required.
3. Prepare permit applications and drawings for GDOT encroachment permits, land disturbance permits, and other permits as needed.

**Deliverables:**

- Final construction documents and cost estimate
- Constructibility reviews
- Easement plats with legal descriptions suitable for recording
- Permit applications as appropriate

**Phase III – Bidding, Construction Management, and Inspection Assistance**

ARCADIS/BPA will assist the City of Atlanta in the bidding process in the following areas: prepare an Invitation to Bid; distribute plans and specifications to contractors, suppliers, and plan rooms; assist in conducting a pre-bid conference; respond to questions from contractors and suppliers during the bid phase; prepare addenda as required; attend the bid opening; evaluate the bids; prepare a tabulation of bids and make a recommendation of award; and conform the contract documents for contract execution and construction phase purposes.

In addition, we will provide construction management during construction in the following areas: visit the job site during performance of work on call to assist the City in maintaining work quality and in constructing the project according to plans and specifications; submit reports on work progress; attend monthly construction meetings; check and approve samples, catalog data, shop drawings, laboratory shop and mill tests of materials, equipment, and other data the contractor is required to submit for conformance with contract documents; interpret plans and technical specifications during construction as required; approve contractor's estimate and certify quantities; and conduct final inspection of the project for conformance with the design concept and technical provisions of the contract.

We will provide a full-time inspector during the construction phase to: inspect the work daily for quality and compliance with the plans and specifications; submit daily reports and work progress; attend monthly construction meetings; review the contractor's estimate and quantities and provide recommendations to the ARCADIS/BPA construction manager; assist the ARCADIS/BPA construction manager by coordinating the monthly meeting schedule; and perform all activities



Mr. Peter Tinubu  
January 12, 2005

necessary to verify that the contractor performs all work in accordance to the contract documents and schedule.

**Deliverables:**

- Construction documents for bidding purposes (40 sets)
- Tabulation of bids and recommendation of award
- Conformed contract documents for contract execution

**Project Assumptions**

The ARCADIS/BPA team submits the following assumptions relative to this project:

- The Department of Watershed Management will provide copies of the water plat maps covering the Virginia Highlands area and drawings of recent water main improvements prior to the kickoff meeting.
- No geotechnical investigations are planned as part of this work.
- Pipeline alignment will be accomplished within the existing right-of-way.
- Design of the pipeline will be open trench method.

**Project Team**

The members of the ARCADIS/BPA team that will work on this project and their responsibilities are as follows:

- ARCADIS – project management and design
- Brindley Pieters & Associates, Inc. – project management and design
- U.S. Cost, Inc. – construction cost estimates

**Schedule**

ARCADIS/BPA estimates that design and permit submittals for this project will take approximately 240 days to complete. Twelve months of construction phase services are estimated. Our projected schedule is enclosed.

**Fee**

ARCADIS/BPA proposes to complete the work described in this proposal for the not-to-exceed fee of \$1,100,000. A breakdown of our estimated hours and fees is enclosed.





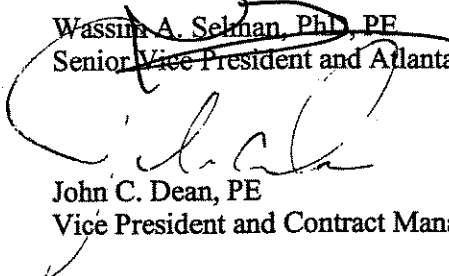
Mr. Peter Tinubu  
January 12, 2005

ARCADIS/BPA appreciates this opportunity to work for the City of Atlanta. Please call us if you have any questions or comments.

Sincerely,

ARCADIS/BPA, Joint Venture

  
Wassim A. Selman, PhD, PE  
Senior Vice President and Atlanta Area Manager

  
John C. Dean, PE  
Vice President and Contract Manager

  
Wesley Barnes, PE  
Senior Vice President and Deputy Contract Manager

Enclosure

Copies:  
Scott Hennessey  
Gary Gann  
John Scioscia  
Doug Edwards

*This proposal and its contents shall not be duplicated, used, or disclosed—in whole or in part—for any purpose other than to evaluate the proposal. This proposal is not intended to be binding or form the terms of a contract. The scope and price of this proposal will be superseded by the contract. If this proposal is accepted and a contract is awarded to ARCADIS/BPA as a result of—or in connection with—the submission of this proposal, ARCADIS/BPA and/or the client shall have the right to make appropriate revisions of its terms, including scope and price, for purposes of the contract. Further, client shall have the right to duplicate, use, or disclose the data contained in this proposal only to the extent provided in the resulting contract.*

Page:  
5/5

[illegible]

**ARCADIS/BPA 1/12/05**

TASK SUMMARY  
VIRGINIA HIGHLAND AREA  
WATER MAIN REPLACEMENT PROGRAM  
FOR F.Y. 2005  
CITY OF ATLANTA, GEORGIA  
01/12/05

**BASIC SERVICES**

<u>TASK</u>	<u>TASK NAME</u>	<u>FEE</u>
1	PROJECT MANAGEMENT	\$126,416
2	PRE-DESIGN STUDY	\$333,486
2A	Utility Locates	\$120,425
2B	Design Survey and database	\$148,052
2C	Preliminary Drawings	\$60,363
2D	Preliminary Construction Cost Estimate	\$4,646
3	DESIGN AND CONTRACT DOCUMENTS	\$266,950
3A	Final Plans and Specifications	\$186,002
3B	Permitting	\$72,769
3C	Final Construction Cost Estimate	\$8,179
4	BIDDING, CONSTRUCTION MGT. AND INSPECTION	\$323,149
4A	Bid Assistance	\$22,161
4B	Construction Administration	\$116,293
4C	Construction Observation	\$184,695
	SUBTOTAL	\$1,050,000
	CONTINGENCY	\$50,000
	TOTAL ESTIMATED BASIC SERVICES FEE =	<u>\$1,100,000</u>

**TASK 1 - PROJECT MANAGEMENT**

DESCRIPTION		PROJECT DIRECTOR (ENG. 8) \$174.74	SR. PROJ. MGR. (ENG. 7) \$150.14	SR PROJ. ENG. (ENG. 6) \$123.11	CLERICAL (Off Manger) \$55.96	DIRECT COSTS
1.1	PREPARE PROGRESS REPORTS	80	80		60	\$200
1.2	CLIENT MEETINGS/MINUTES	80	40	40	40	\$200
1.3	COORDINATION WITH TEAM	80	40	40	20	\$200
1.4	MAINTAIN DESIGN FILES	20	40	40	20	\$200
1.5	INVOICING	80	40	40	40	\$400
TOTALS :		340	240	160	180	\$1,200
LABOR SUBTOTALS :		\$59,412	\$36,034	\$19,698	\$10,073	
TOTAL LABOR COST :		\$125,216				
TOTAL DIRECT COST :		\$1,200				
TOTAL ESTIMATED FEE - TASK 1 :		\$126,416				

**TASK 2A - UTILITY LOCATES**

DESCRIPTION		SR. PROJ. MGR. (ENG. 7) \$150.14	SR PROJ. ENG. (ENG. 6) \$123.11	LOCATE COORDINATOR (MAN.OF SURV.) \$71.28	LOCATOR (PARTY CH.) \$68.93	INST TECH \$48.34	CLERICAL (Off Manger) \$55.96	DIRECT COSTS
2A.1	COORDINATE W/FIELD SURVEYS		5	10	72		5	\$20
2A.2	ISSUE LOCATE REQUEST & FOLLOW-UP			19	8			
2A.3	RESEARCH OTHER UTIL. RECORDS				56			\$100
2A.4	FIELD LOCATING			19	1093	540		\$300
2A.5	PLANNING, QA/QC	16	16				8	\$50
	TOTALS :	16	21	48	1229	540	13	\$470
	LABOR SUBTOTALS :	\$2,402	\$2,585	\$3,421	\$84,715	\$26,104	\$727	
	TOTAL LABOR COST :	\$119,955						
	TOTAL DIRECT COST :	\$470						
	TOTAL ESTIMATED FEE - TASK 2A :	\$120,425						

TASK 2B - SURVEY

DESCRIPTION	SURVEY DEPT. DIRECTOR \$150.14	LAND SURVEY. \$97.96	SURV TECH (Man.of Surv.) \$71.25	PARTY CHIEF \$68.93	INST TECH \$48.34	CHAIN ROD \$40.84	CLERICAL (Off Manger) \$55.96	CADD DIRECT COSTS \$5/Hr.	OTHER DIRECT COSTS
2B.1 SETUP / PLANNING / QA/QC	4	4	4				2		
2B.2 AERIAL MAPPING									\$8,000
2B.3 FIELD/OFFICE WORK									
a. Field protocol setup			25						
b. Research									
tax assessors records			40						\$150
right of way research			50						
c. Photo Control - 8 points				10	10	10			\$150
d. Upload digital ortho & prep for field work	1	3	50						\$150
e. Field-draft improvements onto aerial photography	20	25		360	360	360	30		\$1,150
f. Finalize database			150					\$750	
g. Add graphical R/W lines and side property lines	7	14	200				20	\$1,000	
2B.4 QC REVIEW									
- field review		80					6		\$411
- office revisions	6	20	70				6		
2B.5 EASEMENTS (assume 6 plats)									
- field surveys	2	4		40	40	40	2		\$100
- office, including research, resolution and platting	3	6	50				1	\$250	\$100
TOTALS :	43	156	639	410	410	410	67	\$2,000	\$10,211
LABOR SUBTOTALS :	\$6,456	\$15,282	\$45,529	\$28,261	\$19,819	\$16,744	\$3,749		
TOTAL LABOR COST :	\$135,841								
TOTAL DIRECT COST :	\$12,211								
TOTAL ESTIMATED FEE - TASK 2B :	\$148,052								

**TASK 2C - PRELIMINARY DRAWINGS**

DESCRIPTION		SR. PROJ. MGR. (ENG. 7) \$150.14	SR PROJ. ENG. (ENG. 6) \$123.11	PROJ ENG. (ENG. 5) \$100.13	CADD TECH (DES. 3) \$76.98	CLERICAL (Off Manger) \$55.96	CADD DIRECT COSTS \$5/Hr.	OTHER DIRECT COSTS
2C.1	COLLECT BACKGROUND DATA							
a.	Gather/Review existing City records	6	6	40		10		\$500
b.	Input City records to database			20	60		\$400	\$50
2C.2	SITE INVESTIGATIONS							
a.	Field investigate proposed water main routes	8	8	8				\$100
b.	Meet w/other gov. agencies to identify potential route issues.	12	20	20				\$100
2C.3	WATER MAIN ROUTE MAPPING							
a.	Preliminary layout of proposed water lines on aerial mosaic maping	20	20	120	100		\$1,100	\$50
2C.4	INTERNAL PROJECT MEETINGS	12	12	12				\$200
2C.5	PLANNING, QA/QC	20	20			10		\$100
	TOTALS :	78	86	220	160	20	\$1,500	\$1,100
	LABOR SUBTOTALS :	\$11,711	\$10,587	\$22,029	\$12,317	\$1,119		
	TOTAL LABOR COST :	\$57,763						
	TOTAL DIRECT COST :	\$2,600						
	TOTAL ESTIMATED FEE - TASK 2C :	\$60,363						

**TASK 2D - PRELIMINARY CONSTRUCTION COST ESTIMATE**

DESCRIPTION		SR. PROJ. MGR. (ENG. 7) \$150.14	COST ESTIMATOR \$95.83	CLERICAL (Off Manger) \$55.96	DIRECT COSTS
2D.1	PRELIMINARY CONSTRUCTION COST ESTIMATE (30% LEVEL)				
a.	Preliminary Estimate		40		
2D.2	COORDINATION	4		2	\$100
	TOTALS :	4	40	2	\$100
	LABOR SUBTOTALS :	\$601	\$3,833	\$112	
	TOTAL LABOR COST :	\$4,546			
	TOTAL DIRECT COST :	\$100			
	TOTAL ESTIMATED FEE - TASK 2D :	\$4,646			



**TASK 3A - FINAL WATER MAIN DESIGN**

DESCRIPTION		SR. PROJ. MGR. (ENG. 7) \$150.14	SR PROJ. ENG. (ENG. 6) \$123.11	PROJ ENG. (ENG. 5) \$100.13	CADD TECH (DES. 3) \$76.98	CLERICAL (Off Manger) \$55.96	CADD DIRECT COSTS \$5/Hr.	OTHER DIRECT COSTS
3A.1	CONSTRUCTION DRAWINGS							\$600
a.	Cover Sheet, Index & Loc. Map			6	10		\$80	
b.	Legend and General Notes			14	20		\$170	
c.	Plan Drawings - 58 @ 1"= 50' scale	100	100	230	290		\$2,600	
d.	Special Details (est. 4)	20	20	80	80		\$800	
e.	Standard Details (2)	10	10	10	10		\$100	
f.	Erosion Control Notes/Details	20	20	80	80		\$800	
3A.2	DESIGN REVIEW MEETINGS	20	20			12		\$1,000
3A.3	REVISIONS PER REVIEW COMMENTS	20	20	40	40		\$400	
3A.4	BID SCHEDULE & SPECIFICATIONS							
a.	Quantity Take-Off	10	10	60				\$100
b.	Bid Schedule	10	10	20		12		\$50
c.	Specifications	10	10	40		40		\$400
3A.5	PLANNING, QA/QC	40	40	40		16		\$500
TOTALS :		260	260	620	530	80	\$4,950	\$2,650
LABOR SUBTOTALS :		\$39,036	\$32,009	\$62,081	\$40,799	\$4,477		
TOTAL LABOR COST :		\$178,402						
TOTAL DIRECT COST :		\$7,600						
TOTAL ESTIMATED FEE - TASK 3A :		\$186,002						

**TASK 3B - PERMITTING/PUBLIC INVOLVEMENT**

DESCRIPTION		SR. PROJ. MGR. (ENG. 7) \$150.14	SR PROJ. ENG. (ENG. 6) \$123.11	PROJ ENG. (ENG. 5) \$100.13	CADD TECH (DES. 3) \$76.98	CLERICAL (Off Manger) \$55.96	CADD DIRECT COSTS \$5/Hr.	OTHER DIRECT COSTS
3B.1	EPD TECHNICAL REVIEW SUBMITTAL	8	8	20	10	8	\$50	\$500
3B.2	GDOT PERMIT APPLICATIONS	10	10	50	50	6	\$250	\$200
3B.3	COMPREHENSIVE MONITORING PLAN	8	8	20	20	6	\$100	\$100
3B.4	LAND DISTURBANCE PERMIT	10	10	40	40	4	\$200	\$1,400
3B.5	OTHER UTILITY ENCROACH. PERMITS	10	10	40	40	4	\$200	\$200
3B.6	COORDINATING PUBLIC INVOLVEMENT	60	60	20	20	12	\$100	\$800
3B.7	PLANNING, QA/QC	14	14			10		\$200
TOTALS :		120	120	190	180	50	\$900	\$3,400
LABOR SUBTOTALS :		\$18,017	\$14,773	\$19,025	\$13,856	\$2,798		
TOTAL LABOR COST :		\$68,469						
TOTAL DIRECT COST :		\$4,300						
TOTAL ESTIMATED FEE - TASK 3B :		\$72,769						

**TASK 3C - FINAL CONSTRUCTION COST ESTIMATES**

DESCRIPTION		SR. PROJ. MGR. (ENG. 7) \$150.14	COST ESTIMATOR \$95.83	CLERICAL (Off Manger) \$55.96	DIRECT COSTS
3C.1	FINAL CONSTRUCTION COST ESTIMATE				
a.	Final Cost Estimate		80		
4B.3	COORDINATION/PRINTING	2		2	\$100
	TOTALS :	2	80	2	\$100
	LABOR SUBTOTALS :	\$300	\$7,666	\$112	
	TOTAL LABOR COST :	\$8,079			
	TOTAL DIRECT COST :	\$100			
	TOTAL ESTIMATED FEE - TASK 3C :	\$8,179			

**TASK 4A - BID ASSISTANCE**

DESCRIPTION		SR. PROJ. MGR. (ENG. 7) \$150.14	SR PROJ. ENG. (ENG. 6) \$123.11	PROJ ENG. (ENG. 5) \$100.13	CLERICAL (Off Manger) \$55.96	DIRECT COSTS
4A.1	DISTRIBUTE PLANS & SPECIFICATIONS			6	12	\$6,000
4A.2	CONDUCT PREBID CONFERENCE	6	6		4	\$60
4A.3	RESPOND TO BIDDERS' QUESTIONS	10	10			
4A.4	PREPARE & DIST. ADDENDA	10	10	10	10	\$400
4A.5	ATTEND BID OPENINGS	4	4			\$60
4A.6	EVALUATE BIDS & RECOM. AWARD	4	4		12	\$50
4A.7	PLANNING, QA/QC	8	8		6	\$50
	TOTALS :	42	42	16	44	\$6,620
	LABOR SUBTOTALS :	\$6,306	\$5,171	\$1,602	\$2,462	
	TOTAL LABOR COST :	\$15,541				
	TOTAL DIRECT COST :	\$6,620				
	TOTAL ESTIMATED FEE - TASK 4A :	\$22,161				

VIRGINIA HIGHLAND AREA  
WATER MAIN REPLACEMENT PROGRAM, F.Y. 2005  
CITY OF ATLANTA, GEORGIA

ARCADIS/BPA  
01/12/05

**TASK 4B - CONSTRUCTION ADMINISTRATION**  
(Based on 12-month construction time)

DESCRIPTION		SR. PROJ. MGR. (ENG. 7) \$150.14	CONST PROJ MGR (Office) \$132.86	RESIDENT ENGINEER (Office) \$105.30	CADD TECH (DES. 3) \$76.98	CLERICAL (Off Manger) \$55.96	CADD DIRECT COSTS \$5/Hr.	DIRECT COSTS
4B.1	CONFORM PLANS & SPECS TO ADDENDA	4	4	4	16	8	\$80	\$1,000
4B.2	PREPARE CONTRACTS FOR EXECUTION	6	6			8		\$100
4B.3	ATTEND PRECONSTRUCTION CONFERENCE	4	4	4		4		\$50
4B.4	PROGRESS REPORTS/CORRESPONDENCE	12	192	96		96		\$400
4B.5	REVIEW SHOP DRAWING & SUBMITTALS	6	20	20		20		\$50
4B.6	INTERPRET PLANS & SPECIFICATIONS	24	12	12		12		\$50
4B.7	PROCESS CHANGE ORDERS	4	16	12		12		\$200
4B.8	REVIEW PAY REQUESTS	6	24	48		24		\$100
4B.9	ATTEND CONSTRUCTION MEETINGS	6	24	12		12		\$200
4B.10	CONDUCT FINAL INSPECTION		40	40		10		\$200
4B.11	PREPARE RECORD DRAWINGS	2	10	10	80	8	\$400	\$600
4B.12	PLANNING, QA/QC	26	26			16		\$200
TOTALS :		100	378	258	96	230	\$480	\$3,150
LABOR SUBTOTALS :		\$15,014	\$50,221	\$27,167	\$7,390	\$12,871		
TOTAL LABOR COST :		\$112,663						
TOTAL DIRECT COST :		\$3,630						
TOTAL ESTIMATED FEE - TASK 4B :		\$116,293						

VIRGINIA HIGHLAND AREA  
WATER MAIN REPLACEMENT PROGRAM, F.Y. 2005  
CITY OF ATLANTA, GEORGIA

ARCADIS/BPA  
01/12/05

**TASK 4C - CONSTRUCTION OBSERVATION**  
(Based on 12-month construction time)

DESCRIPTION		SR. PROJ. MGR. (ENG. 7) \$150.14	CONST PROJ MGR (Field) \$115.10	RESIDENT ENGINEER (Field) \$89.06	FIELD ENGINEER (Field) \$65.51	CLERICAL (Off Manger) \$55.96	DIRECT COSTS
4C.1	REVIEW PLANS & SPECS PRIOR TO CONST.			10	10		\$300
4C.2	FULL-TIME CONSTRUCTION OBSERVATION			400	2080		\$5,000
4C.9	PLANNING, QA/QC	20	20			10	\$100
	TOTALS :	20	20	410	2090	10	\$5,400
	LABOR SUBTOTALS :	\$3,003	\$2,302	\$36,515	\$136,916	\$560	
	TOTAL LABOR COST :	\$179,295					
	TOTAL DIRECT COST :	\$5,400					
	TOTAL ESTIMATED FEE - TASK 4C :	\$184,695					